

John Mathes & Associates, Inc. Geotechnical Consultants

Columbia, IL 62236-0330 618/281-7173 314/241-1785

June 11, 1982

Illinois Environmental Protection Agency 2200 Churchill Road ·Springfield, IL

Attention Mr. Terry Ayres

Reference Brighton Landfill Modifications

PECENTED

JUN 14 1982

E.r.A. - D.L.P.C. STATE OF ILLINOIS

Gentlemen:

During our meeting Thursday at I.E.P.A. offices in Springfield, there came to light a discrepancy in our report regarding the above-referenced project. This discrepancy was a difference in reported permeability values on Sample 4 from Boring 4. A permeability value of 1.1×10^{-7} cm/sec. was reported on the Record of Subsurface Exploration for Boring 4, but a value of 1.1×10^{-2} cm/sec. was shown on the grain size curve for this sample.

I indicated in our meeting that the 1.1 \times 10⁻² cm/sec. value was inconsistent with the grain size curve and that I was sure that the correct value was 1.1 x 10^{-7} cm/sec. as shown on the Record of Subsurface Exploration. Upon returning to our office, I immediately examined our files to be sure that my assertion to you was correct. Our records confirm that it was. Enclosed for your record is a copy of our laboratory test sheet which supports my assertion and also a copy of a corrected grain size curve which should be considered to be an addendum to our original report. there are any questions regarding this or any other portion of our work on this project, please feel free to contact me at your convenience.

Sincerely,

JOHN MATHES & ASSOCIATES, INC.

Gary M. Mathes,

Vice-President

GMM: jcs

EPA Region 5 Records Ctr.

296460

Enclosures Laboratory Test Sheet Grain Size Curve, Boring 4A

CC Mike Rapps, M. Rapps Associates, Inc.

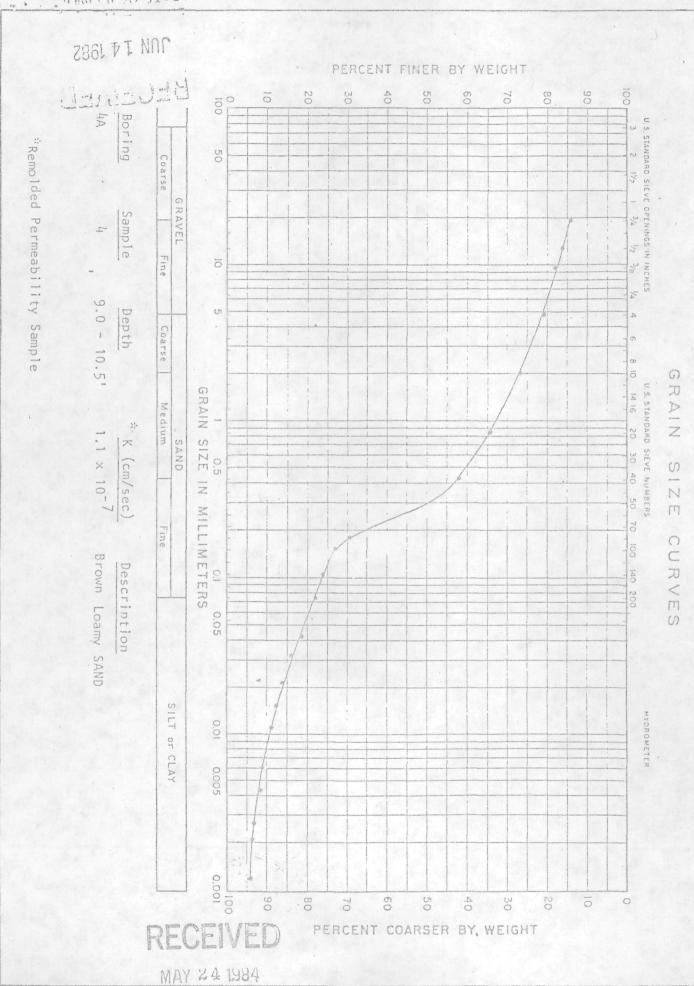
MAY 24 1984

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PERMEABILITY TEST

FALLING HEAD

Project No. /154			TE	Technician MAX			Date 1-4-82			
SAMPLE	DATA	P-5	(REMO	LDED (Q. NAT	Me)				
Boring N							- Dept	h j	9-105/	
TARE NO				D		DIAMETER cm		D	3.36	
TARE +	DRY SC	OIL			AREA cm ²			Α.	8.87	
TARE				INITIAL HEIGHT cm				L	6,47	
DRY SO	IL		W_{s}		INITIAL VOLUME cm ³			V	57,39	
SPECIFI	C GRAY	VITY	G		INITIAL VOID RATIO			е		
VOLUM	E OF S	OILDS	M _s	VISCOSITY CORRECTION			ION	Rt		
TEST DA	TA	P-5	FP+5T	= 0.6	7 cm		Am	= 7.	14 cm	
INITIAL	. HEAD	cm ho _	220.5	O.S AREA OF			STANDPIPE cm ² a 0.38			
Date	Day	Time	Elapsed Time min sec	Flow cm ³ Q	Head Loss	Head cm h ₁	Coefficient of Permeability k cms/min - sec			
1-4	37	5,130	disconstitution.	Most religious-						
1-5	1	4:30		3.25						
1-5	28	4:30	- Account	ARRESTABLISHED						
1-6	2	3:25		2.75						
1-6	RE	3:25	45 th by comme	ferensing arms.						
1-7	3	420	1495*	2,90	7.63	212.87	6.5 × 10	,-6/	1.1 × 10	
1-7	RE	4:20		Schronen					And the second s	
1-8	4	3:10	1370	2.80	7.37	213,13	6.9 × 10	6/1	1.1 × 10-7	
				IREC	EWED					
				MAY	24 1984)				VED_	
				E.P.A.	In D.L.P.Ca	O	JUN 14 1982			
				PIATE	P. ILLINOIS				L.P.C.	
$k_{20} = 2.303 \frac{aL}{At} - 10G \frac{h_o}{h_1} \times R_t$						Computed by				



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